

What is claimed:

1. A cap assembly (46) for use with a sensor assembly (18) that is mounted to a support (30) using an epoxy (56) to hold the sensor assembly (18) to the support (30), said cap assembly (46) comprising:

a body (48) having a predetermined length and a shape matching a shape of a portion (32) the support (30) such that said body (98) is removably securable to the support (30);

an end plate (50) covering said body (48) preventing the epoxy (56) from flowing therepast; and

a handle (52) for removing said cap assembly (46) from the support (30) when the epoxy (56) has cured.

2. A cap assembly (46) as set forth in claim 1 wherein said handle (52) is fixedly secured to said end plate (50).

3. A cap assembly (46) as set forth in claim 2 wherein said handle (52) extends across said body (48).

4. A cap assembly (46) as set forth in claim 3 wherein said handle (52) is rectangular in shape.

5. A method for assembling a sensor assembly (18) for use in a reservoir of fluid by securing a sensor (22) to a support (30) with an epoxy (56) using a cap assembly (46), the method including the steps of:

fitting the cap assembly (46) over the support (30);

inserting the sensor assembly (18) into the support (30);

rotating the support (30) until the cap assembly (46) is below the

sensor (22);

filling the support (30) with epoxy (56);

curing the epoxy (56); and

removing the cap assembly (46).

6. A method as set forth in claim 5 wherein the step of insert the sensor (22) into the support (30) includes the step of abutting the sensor (22) against the cap assembly (46).

7. A method as set forth in claim 6 including the step of mounting
5 the support (30) within a reservoir after the step of removing the cap assembly (46).

8. A method as set forth in claim 7 including the step of centering the sensor (22) inside the support (30) before the step of filling the support (30) with the epoxy (46).

9. A method as set forth in claim 8 including the step of curing the
10 epoxy (56) by heating the epoxy (56) to 100°C.

10. A method as set forth in claim 9 including the step of curing the epoxy (56) for a time in a range between twenty minutes and thirty minutes.